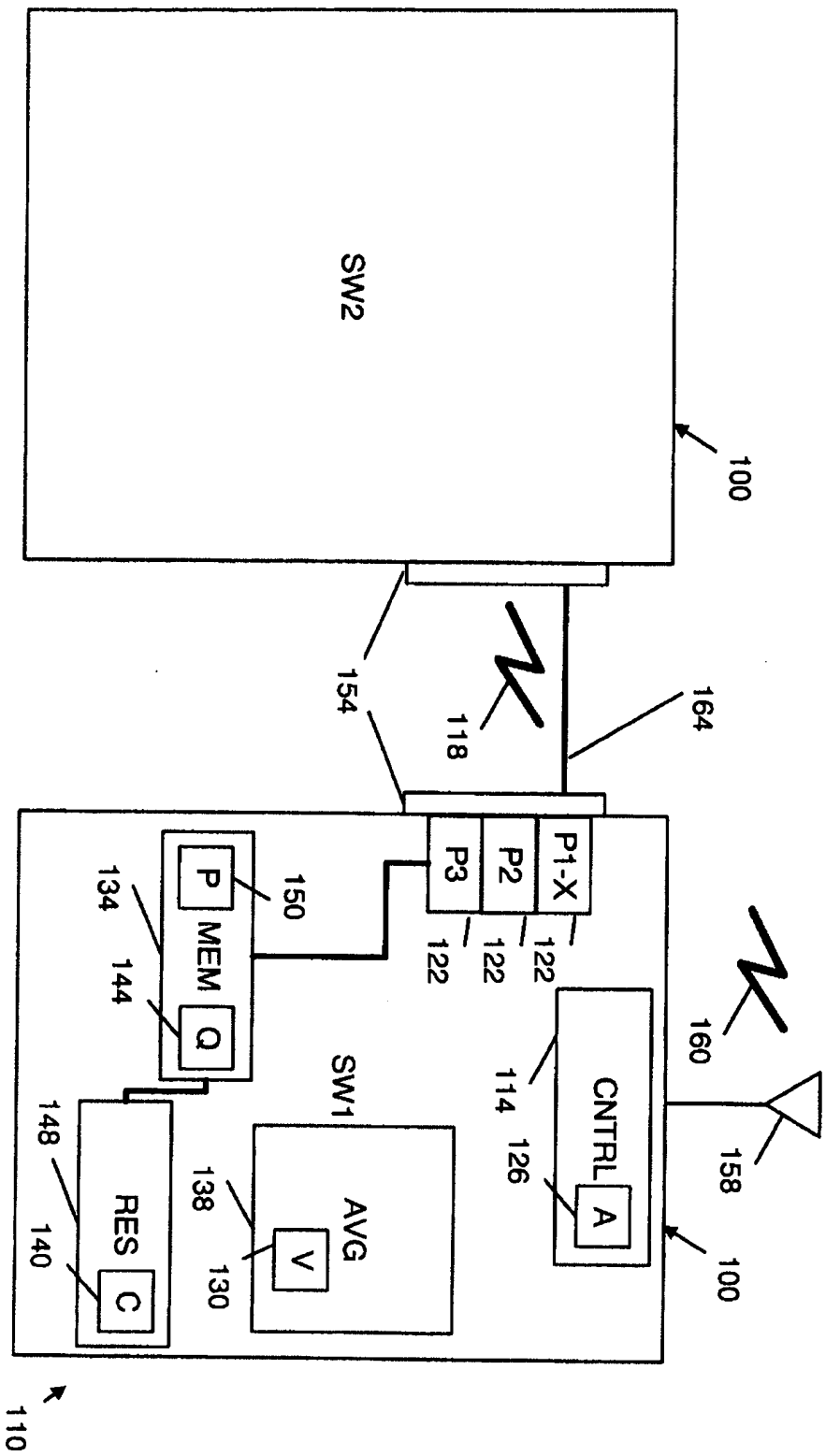


FIG. 1



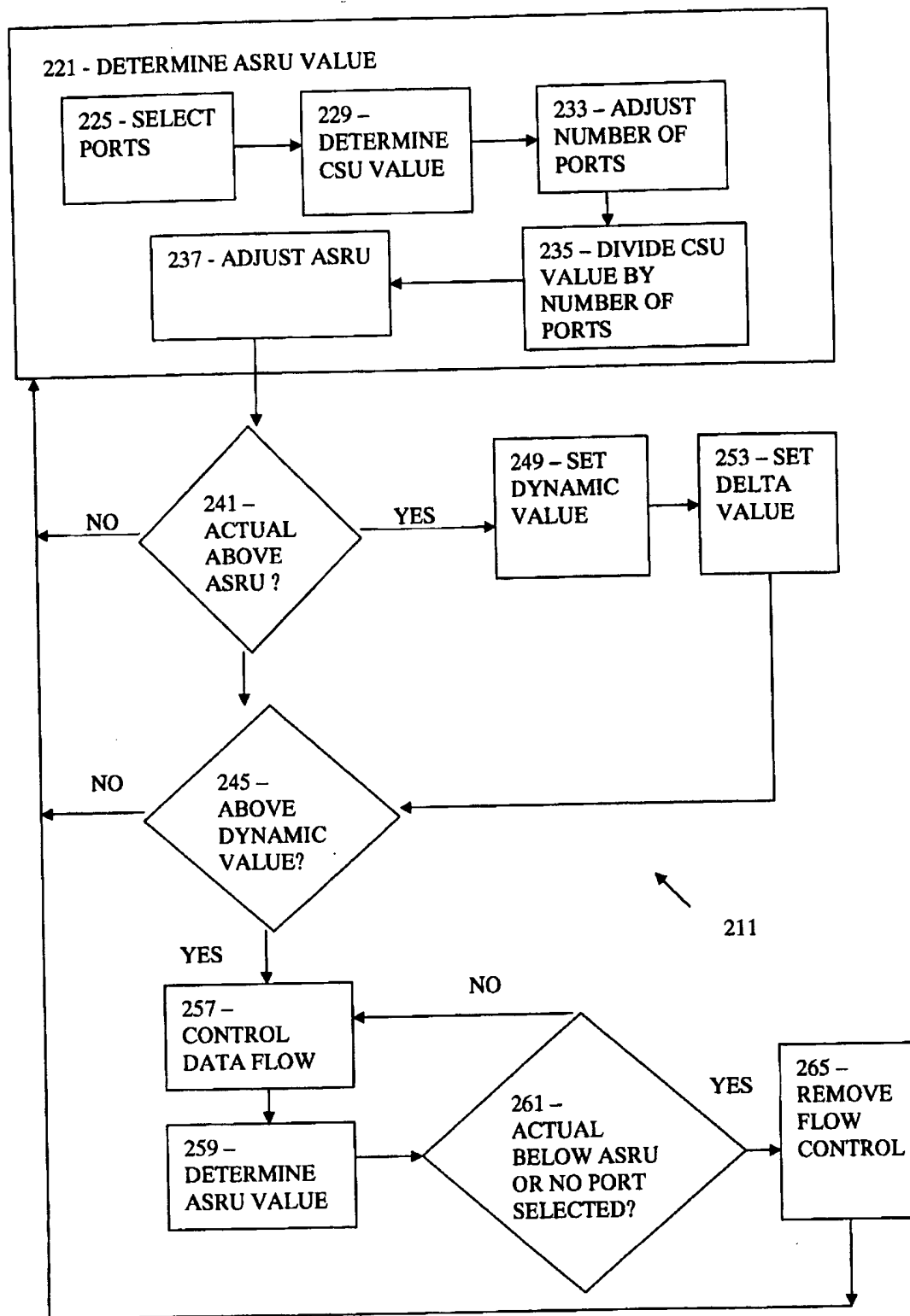


FIG. 3

```

    PortRxUsage = Per Receive port utilization of memory
    PortRxSharedUsage = (PortRxUsage > Tpmin)? (PortRxUsage - Tpmin): 0
    CumulativeSharedUsage = SUM (PortRxSharedUsage)
    Delta Value = Function(port speed, overall resource usage)
372  if (CumulativeSharedUsage is greater than a memory level for which adaptive flow
    control is enabled) 380
    {
        NumPortsInShared = count of all the ports which are using memory in shared
                           space // Different speed ports are scaled accordingly. 10G
                           is counted as 10 ports. This value is used to determine
                           the average shared memory usage per 1G port.

        AverageSharedUsage1G = [CumulativeSharedUsage / NumPortsInShared]
        AverageSharedUsage10G = AverageSharedUsage1G * 10
        DynamicThresh1G = AverageSharedUsage1G + Delta value
        DynamicThresh10G = AverageSharedUsage10G + Delta value
        DynamicThresh1Gdown = DynamicThresh1G - Delta value
        DynamicThresh10Gdown = DynamicThresh10G - Delta value
    } 382

    DynamicThresh = (Portspeed == 10G) ? DynamicThresh10G : DynamicThresh1G
    DynamicThreshdown = (Portspeed == 10G) ?
        DynamicThreshdown10G : DynamicThreshdown1G

    if (PortRxSharedUsage >= DynamicThresh) 384
    { // this port is consuming more than the average
        AssertFlowControl;
        FlowControlTime = 16'hFFFF or
            Function(PortRxSharedUsage - DynamicThresh)
    }
    else if (PortRxSharedUsage < DynamicThreshDown) or
        (PortRxUsage <= Tpmin) 386
    { // this port is no longer causing congestion
        DeassertFlowControl;
    }

```

FIG. 4

